

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: STREETWORKS

Report Number: P321906

Luminaire Tested: **GAN-SA2A-740-U-T2-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P321906
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-13)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA2A-740-U-T2-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 4000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6783 lumens
Efficiency: N/A
Efficacy: 102.8 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B1 - U0 - G2

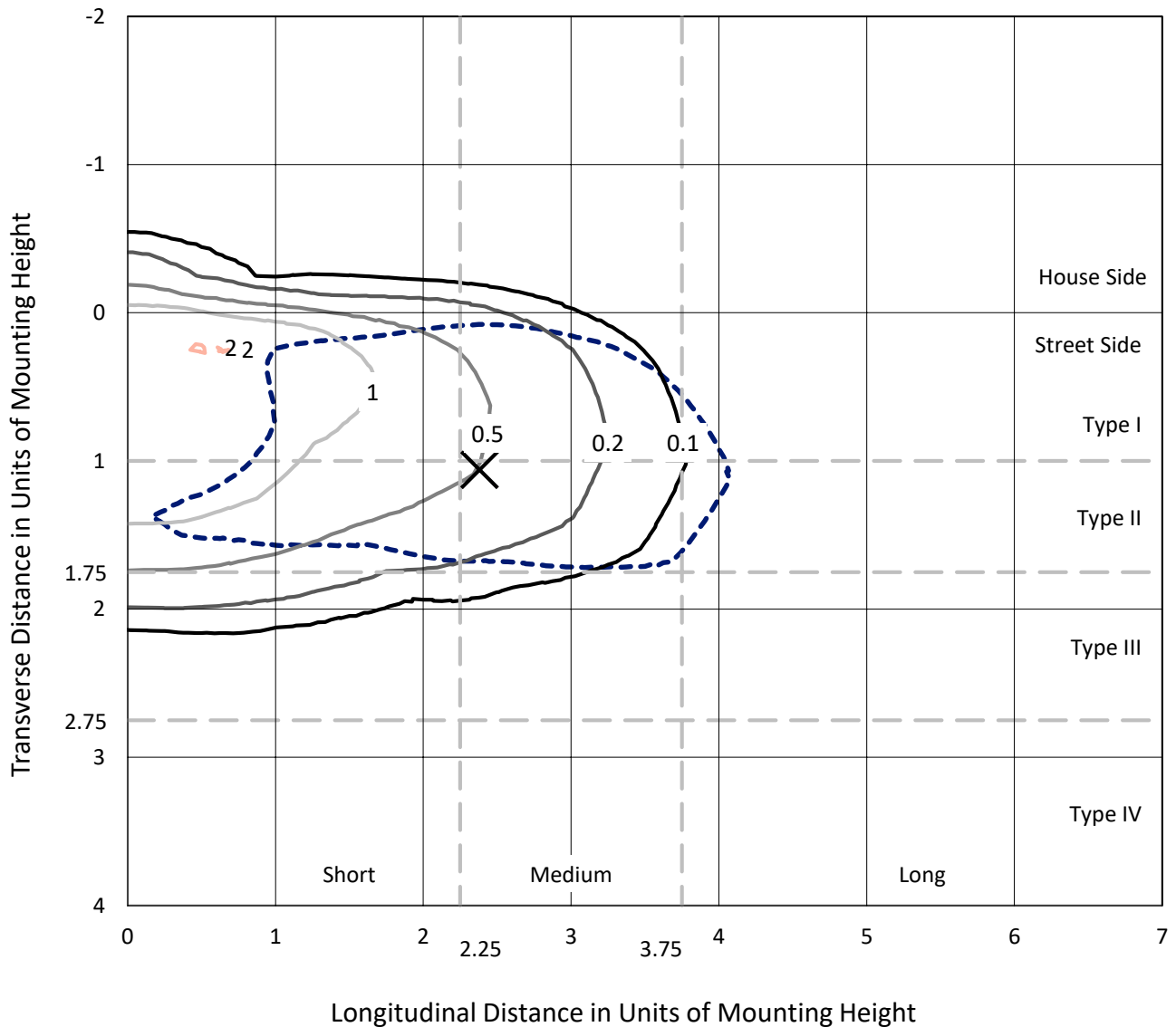
Input Watts (W): 66
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

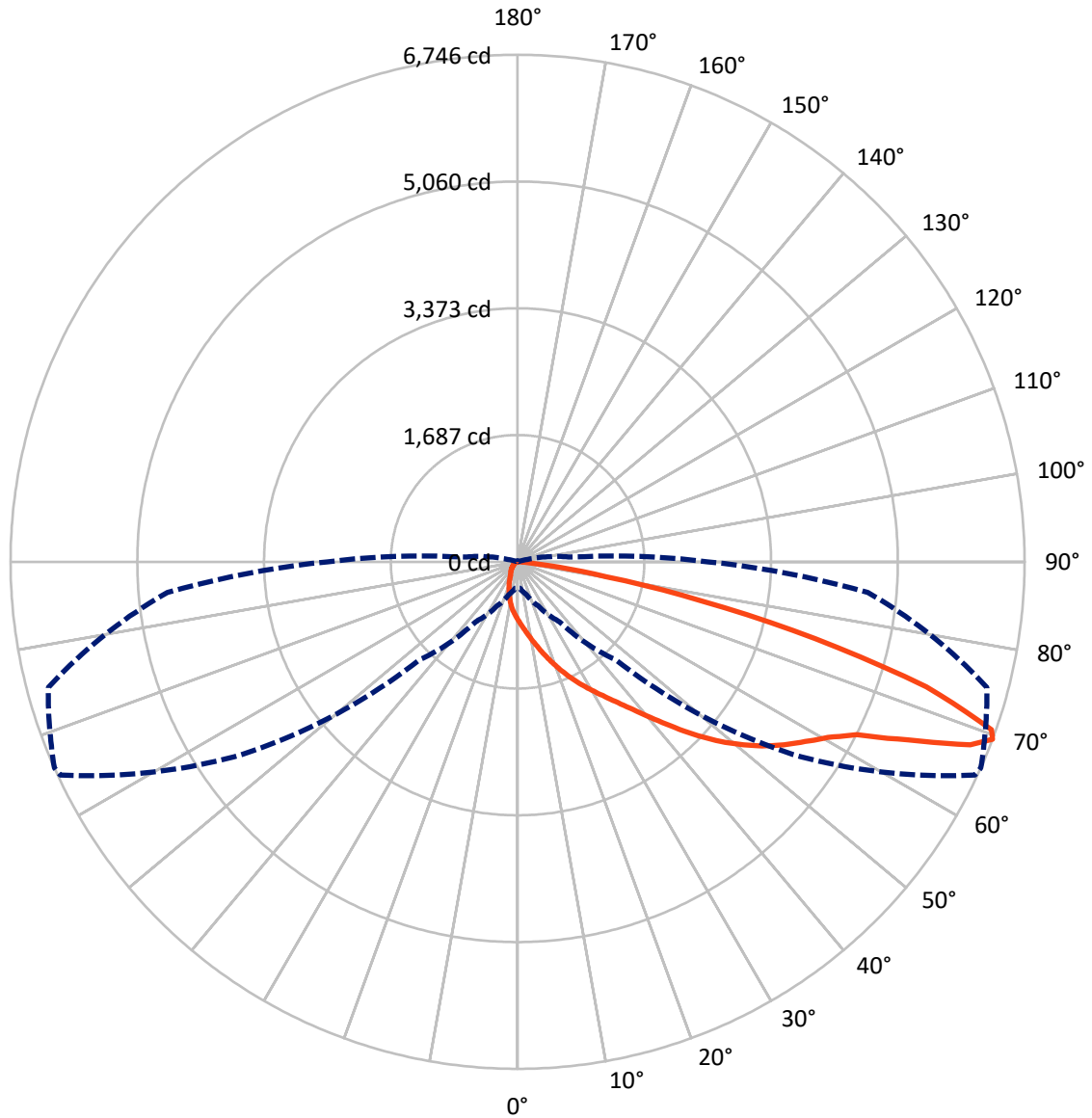
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 66-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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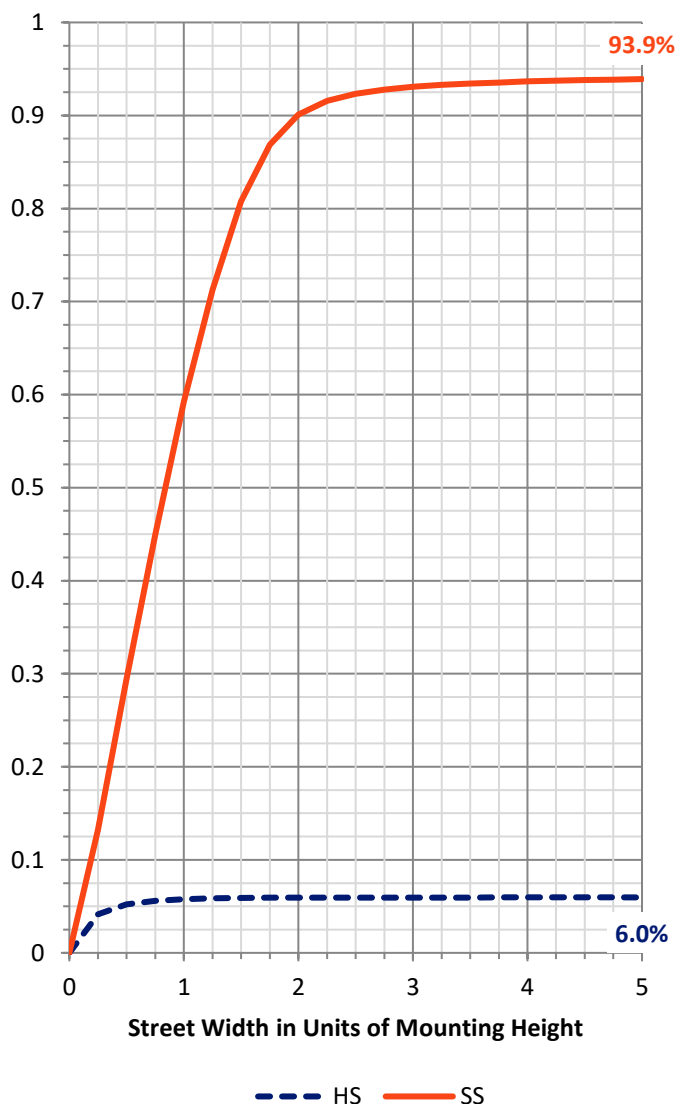
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	406.9	0.0	406.9
	% Fixture	6.0	0.0	6.0
Street Side	Lumens	6376.1	0.0	6376.1
	% Fixture	94.0	0.0	94.0
Total	Lumens	6783.0	0.0	6783.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	74.6	1.1
10°-20°	222.1	3.3
20°-30°	386.7	5.7
30°-40°	678.5	10.0
40°-50°	1135.7	16.7
50°-60°	1669.3	24.6
60°-70°	1714.0	25.3
70°-80°	846.2	12.5
80°-90°	55.9	0.8
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	6783.0	100.0
0°-180°	6783.0	100.0

Coefficient of Utilization

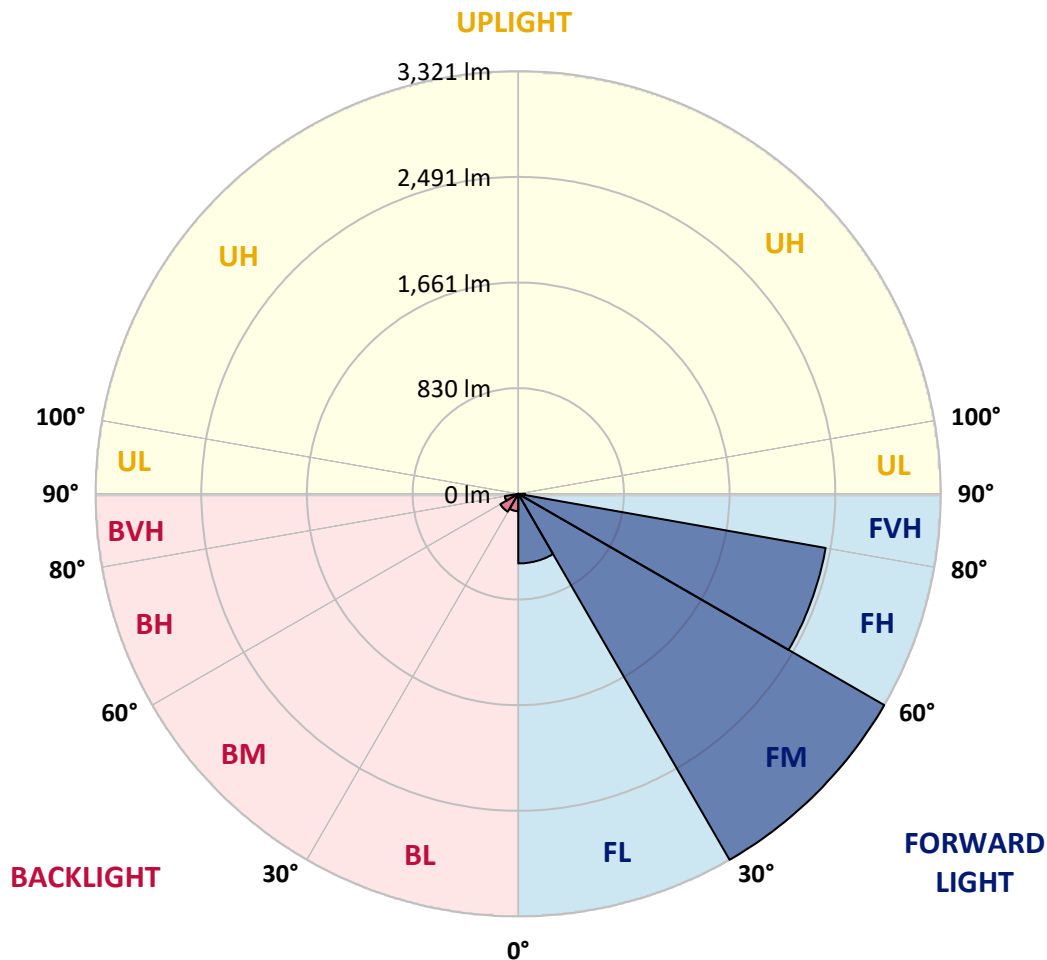


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	547.3	8.1			
FM (30°-60°)	3321.3	49.0			
FH (60°-80°)	2452.9	36.2			G2/5000
FVH (80°-90°)	54.6	0.8			G1/100
BL (0°-30°)	136.1	2.0	B1/500		
BM (30°-60°)	162.2	2.4	B0/220		
BH (60°-80°)	107.2	1.6	B0/110		G0/110
BVH (80°-90°)	1.4	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2
 Type II Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	771.9	771.9	771.9	771.9	771.9	771.9	771.9	771.9	771.9	771.9	771.9
2.5°	908.5	904.7	903.1	896.0	883.7	874.4	856.3	835.4	831.5	811.2	786.4
5°	1026.4	1023.2	1021.0	1011.0	998.4	974.9	942.0	903.1	895.6	857.0	807.4
7.5°	1108.6	1114.4	1114.4	1108.0	1092.2	1074.4	1034.2	981.0	971.7	912.4	835.4
10°	1156.6	1163.7	1169.2	1174.6	1172.4	1165.3	1127.3	1067.4	1056.1	977.5	867.9
12.5°	1161.1	1168.2	1183.7	1206.5	1228.8	1244.9	1221.0	1163.0	1150.2	1052.9	906.6
15°	1136.0	1143.4	1167.2	1211.7	1265.5	1312.5	1320.3	1269.0	1255.8	1142.7	954.9
17.5°	1092.2	1097.0	1131.2	1192.7	1277.1	1363.4	1410.2	1382.8	1370.5	1245.5	1008.7
20°	1059.6	1063.2	1093.1	1159.2	1270.0	1395.3	1495.2	1503.6	1490.7	1355.7	1067.0
22.5°	1115.4	1121.8	1122.8	1154.0	1250.7	1411.1	1570.0	1622.5	1612.8	1472.7	1124.4
25°	1267.8	1275.2	1250.7	1231.3	1267.1	1418.2	1634.1	1744.2	1736.5	1598.6	1182.1
27.5°	1469.1	1476.8	1445.3	1387.6	1353.1	1444.9	1691.1	1868.0	1867.6	1732.0	1244.2
30°	1666.9	1674.7	1642.4	1584.8	1505.5	1520.7	1740.4	1997.5	1999.4	1869.6	1310.3
32.5°	1874.4	1884.1	1850.9	1776.8	1694.0	1651.5	1809.6	2127.6	2138.6	2029.0	1384.7
35°	2110.2	2111.5	2064.8	1987.2	1891.8	1826.4	1920.8	2273.6	2299.7	2226.5	1479.1
37.5°	2341.6	2350.9	2312.6	2190.1	2102.5	2028.4	2086.1	2455.9	2493.0	2467.8	1602.5
40°	2513.0	2532.6	2527.1	2395.0	2311.9	2259.1	2291.3	2672.7	2719.8	2748.8	1758.1
42.5°	2620.6	2635.4	2660.5	2580.9	2505.5	2514.2	2533.6	2925.3	2983.3	3069.0	1936.9
45°	2743.9	2751.0	2772.0	2736.9	2686.0	2773.6	2790.7	3209.8	3270.7	3413.4	2135.4
47.5°	2894.7	2911.5	2917.3	2885.1	2861.9	3003.0	3038.4	3468.5	3553.9	3782.3	2345.4
50°	3086.7	3091.3	3101.2	3080.3	3057.1	3200.1	3260.7	3740.1	3817.8	4152.5	2552.6
52.5°	3274.6	3290.7	3325.5	3312.3	3302.9	3368.0	3458.9	3985.0	4071.6	4461.1	2759.4
55°	3328.7	3342.5	3462.7	3544.9	3620.9	3574.8	3648.3	4204.4	4298.1	4736.9	2958.5
57.5°	3112.5	3140.5	3348.7	3562.6	3878.0	3896.4	3908.6	4429.6	4513.6	4948.3	3165.7
60°	2566.1	2571.6	2913.1	3280.0	3835.5	4177.0	4288.8	4671.5	4742.1	5145.1	3413.7
62.5°	1632.1	1687.9	2062.6	2580.6	3385.7	4136.4	4748.5	5037.5	5063.3	5381.3	3769.4
65°	777.4	813.5	1083.5	1594.4	2452.4	3616.7	5065.9	5699.6	5711.2	5849.4	4244.6
67.5°	430.4	447.8	576.4	858.3	1433.7	2557.7	4937.6	6483.7	6494.7	6327.5	4661.5
69°	336.7	351.5	452.7	646.9	972.0	1838.3	4468.2	6713.4	6746.0	6464.4	4676.3
70°	285.8	300.3	389.8	546.4	781.6	1420.5	3977.2	6656.4	6690.9	6451.5	4565.8
72.5°	174.9	183.3	259.7	384.7	523.9	714.6	2452.7	5629.3	5687.6	5918.0	3924.1
75°	117.9	122.4	162.4	265.5	374.7	367.9	1274.2	3967.9	4094.2	4603.5	2898.3
77.5°	84.4	88.6	108.9	171.7	262.6	242.9	577.0	2465.9	2493.0	2761.0	1580.6
80°	48.0	51.9	77.0	102.1	178.2	162.1	229.4	1177.9	1191.4	1184.0	527.7
82.5°	25.1	28.4	42.2	67.3	114.4	106.0	95.4	394.3	396.3	329.6	115.7
85°	4.8	5.8	20.9	46.1	59.0	46.1	39.0	92.5	94.4	83.4	28.7
87.5°	0.0	0.3	8.4	10.3	11.6	11.9	12.6	18.0	19.3	26.1	7.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	771.9	771.9	771.9	771.9	771.9	771.9	771.9	771.9	771.9	771.9	771.9
2.5°	775.5	763.9	741.6	715.9	695.9	676.2	660.8	644.7	638.9	636.0	635.6
5°	783.2	758.7	711.7	663.4	623.7	586.4	559.6	534.2	522.2	516.8	514.5
7.5°	796.1	756.8	681.1	607.3	550.3	503.6	466.5	438.8	424.9	419.1	416.9
10°	811.2	754.2	645.3	548.0	475.2	426.9	390.2	362.8	347.6	341.2	338.0
12.5°	829.0	749.7	604.1	488.1	411.1	362.8	318.3	284.5	267.1	259.7	256.1
15°	850.9	745.2	560.9	431.7	354.7	295.8	247.1	224.2	220.7	219.4	219.7
17.5°	872.4	738.1	513.9	376.0	295.4	231.0	206.2	204.9	205.5	205.5	205.5
20°	891.8	722.0	462.6	328.3	239.1	194.9	189.8	187.5	185.9	184.6	183.0
22.5°	906.9	700.4	413.3	280.9	195.2	178.5	170.4	163.3	157.5	153.7	151.7
25°	917.2	671.7	368.2	235.5	175.6	162.4	147.9	136.0	126.9	121.5	119.2
27.5°	925.0	640.8	328.0	197.2	162.1	143.7	124.7	110.5	101.2	96.3	94.4
30°	930.4	605.7	292.5	173.3	146.9	124.0	103.7	89.9	83.1	80.5	79.3
32.5°	935.6	566.7	259.0	162.1	132.7	106.0	87.0	76.4	72.2	68.9	68.0
35°	948.5	530.6	227.1	150.1	118.2	90.5	74.7	67.0	62.8	60.9	60.2
37.5°	979.1	503.9	196.5	137.9	103.7	78.3	65.4	59.9	56.1	54.1	53.5
40°	1028.4	490.3	170.8	124.7	89.6	68.9	59.3	54.1	49.9	47.0	46.4
42.5°	1100.9	492.3	152.7	111.5	78.3	61.5	53.5	47.4	42.8	40.3	39.6
45°	1188.8	506.5	140.1	98.6	68.9	55.7	47.0	40.6	36.4	34.2	33.5
47.5°	1284.2	529.3	129.8	87.0	61.5	50.3	40.6	33.8	30.3	28.4	28.0
50°	1384.7	551.6	119.2	75.7	55.1	44.8	34.2	28.0	25.1	23.5	22.9
52.5°	1486.5	577.3	109.5	65.4	49.6	38.3	28.4	22.9	20.6	19.3	18.7
55°	1596.0	596.7	100.2	57.3	44.1	32.5	23.5	19.0	17.1	15.5	15.1
57.5°	1724.9	626.6	90.5	49.6	37.7	27.1	19.3	15.1	13.5	11.9	11.6
60°	1898.9	661.7	80.2	43.8	30.9	22.2	15.8	12.2	10.3	9.0	8.7
62.5°	2128.3	700.7	67.3	38.3	25.1	18.0	12.6	9.7	7.4	5.8	5.8
65°	2419.2	764.2	55.1	32.2	20.6	14.8	9.7	7.1	4.2	2.6	2.6
67.5°	2589.0	775.1	44.5	26.4	16.8	12.6	8.1	4.8	1.3	0.3	0.0
69°	2534.5	711.7	37.7	22.6	14.5	11.9	7.4	3.5	0.6	0.0	0.0
70°	2432.1	650.8	33.2	20.0	13.2	11.3	7.1	2.6	0.6	0.0	0.0
72.5°	2009.7	463.3	25.1	14.8	9.7	10.0	6.4	1.6	0.6	0.0	0.0
75°	1464.0	281.6	18.0	10.3	6.1	7.4	4.5	0.6	0.3	0.0	0.0
77.5°	814.5	132.7	11.3	5.8	3.9	4.5	2.3	0.0	0.0	0.0	0.0
80°	264.5	36.1	5.2	3.2	2.3	2.6	1.0	0.0	0.0	0.0	0.0
82.5°	49.0	10.3	2.9	1.6	0.6	0.6	0.0	0.0	0.0	0.0	0.0
85°	10.6	4.2	1.6	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	3.5	1.3	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)